DRAFT

S-502B 4-Bay Spillway

Revisions 6 August 2000 - Original submission

XY Coord 841125 627835

Location On Griffin Road 1000 feet west of US27 southbound lanesPurpose Maintain stage divide between northern and southern EBS.

Controls C-11 Basin and Lake Okeechobee delivery flows directed south.

Notes 1. Riprap requirements have not been verified with Geotech.

Design Conditions

Discharge (CFS)	2,500	cfs
Headwater Elevation	7.00	ft,NGVD
Tailwater Elevation	6.75	ft,NGVD

Maximum Expected Stages

Headwater Elevation 9.00 ft,NGVD Tailwater Elevation 8.75 ft,NGVD

Maximum Head Difference

Maximum Headwater Elevation 7.50 ft,NGVD Minimum Tailwater Elevation 6.50 ft,NGVD

Crest Data

Shape	Ogee
Crest Elevation	-3.25 ft, NGVD
Ogee Length	14.8 feet
Net Crest Length	80.0 feet
Number and Width of Piers	3@3.25 feet
Approach Apron Elevation	-7.50 ft, NGVD
Approach Apron Width	89.75 feet
Approach Apron Length	10.25 feet

Gate Data

Weir Control	Slide Gate
Number of Gates	4
Gate Bay Width	20.00 feet
Gate Height	14.40 feet
Gate Clearance Elevation	10.00 feet NGVD
Base of Breastwall Elevation	None

Stilling Basin Data Design Disch

3,000 cfs
-8.50 ft,NGVD
8.75 ft,NGVD
27.75 feet
-7.75 ft,NGVD
1 on 5
-7.00 ft,NGVD
1.50 feet
2
12.85 feet
17.15 feet

DRAFT

S-502B 4-Bay Spillway

Canal Data

Side Slopes Cotangent1Upstream Bottom Width130.0 feetUpstream Bottom Elevation-8.00 ft,NGVDDownstream Bottom Width100.0 feetDownstream Bottom Elevation-10.00 ft,NGVD

Riprap Requirements

Design Endsill Velocity2.35 fpsDesign Riprap Velocity4.00 fpsRiprap Protected Area2,000 sq-ftRiprap Thickness1.5 feetRiprap Bedding Thickness1.0 feet

Control Protection Elevation 11.00 ft,NGVD